

Product datasheet for MR206572

Gcat (NM_013847) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcat (NM_013847) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gcat
Synonyms:	A1526977; Kbl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206572 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGGCCAGTTCATGTGGCACGGGGCGCTGTCCCCTGGCCGCCGCGCACATTCAGCGCTGGCTCAGT
TGCGCTGCATCCTGGACAGCGAACTGGAAGGGATCCGCGGAGCCGGCACCTGGAAGAGTGAGCGTGTGAT
CACGTCCCAGGGACCGAGCATCCGCGTGGACGGCATCTCGGGAGGAATCCTCAACTTCTGTGCCAAT
AACTACCTGGGCCTGAGCAGCCACCCTGCAGTGATCCAGGCAGGTCTGCAGACTCTGGAGGAGTTTGGAG
CTGGACTCAGTTCTACTCGATTTATCTGTGGGACCCAGAGCATCCATAAGAATCTAGAAGCCAAGATAGC
CCACTTCCACCAGCGTGAGGACGCCATCCTCTATCCCAGCTGTTTCGATGCCAACGCTGGCCTATTTGAG
GCTTTGCTGACCCAGAGGATGCGGTTCTGTGAGTGAACCATGCTTCCATCATTGACGGCATCC
GACTGTGCAAGGCCACAAAGTACCGTTACCGCCACCTGGACATGGCTGACCTGGAAGCCAAGCTGAAGGA
GGCTCAGAAGCACAGGCTGCGCCTGGTGCCACAGATGGAGCTTTCTCCATGGATGGTGACATCGCTCCC
CTACAGGACATCTGCCGCTTGGCCGCAATATGGTGCCCTGGTCTTTGTGGATGAATGCCATGCCACTG
GCTTTCTGGGCCACAGGACGGGGCACAGATGAGCTGCTAGGTGTCATGGACCAGGTACCATCATCAA
CTCCACCCTGGGAAGGCGCTGGGTGGAGCATCAGGGGATATACCACCGGCCCTGAGCCACTGGTGTCC
CTGCTACGGCAGGTTCTCGGCCCTACCTTTCTCCAACAGCTGCCCCCTGCTGTAGTCGGCTGTGCTT
CTAAGGCCCTGGACCTGCTCATGGAGAGCAATGCCATCATCCAGTCTATGGCTGCCAAGACCCGGCGGTT
CCGCAAGTGAAGCTGCTGGTTTTACTGTCTCAGGAGCCGATCACCCCATCTGCCCTGTGATGCTG
GGAGATGCACGGTTGTCTTCTCAAATGGCAGATGACATGTTAAAGAAAGGTATCTTTGTGATCGGATTTA
GCTACCCTGTGGTCCCTAAGGGCAAGGCCGGATCCGGGTGCAGATCTCAGCTGTACACAGTGAGGAAGA
CATTGACCCTGTGTGGAAGCCTTCGTGGAGGTGGGGCGGCTGCATGGAGCTCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206572 protein sequence
Red=Cloning site Green=Tags(s)

MWASFMWHGALSPGRRASALALRCILDSELEGIRGAGTWKSERVITSRQGPSIRVDGISGGILNFCAN
 NYLGLSSHPAVIQAGLQTL EEFGAGLSSTRFICGTQSIHKNLEAKIAHFHQREDAILYPSCFDANAGLFE
 ALLTPEDAVLSDELNHASIIDGIRLCKAHKYRYRHLDMADLEAKLKEAQKHRLRLVATDGAFSMDGDIAP
 LQDICRLAAQYGALVFVDECHATGFLGPTGRGTDDELLGVMDQVTIINSTLGKALGGASGGYTTGPEPLVS
 LLRQRSRPYLFNSLPPAVVGCASKALDLLMESNAIIQSMAAKTRFRFRSKMEAAGFTVSGADHPICPVML
 GDARLSSQMADDMLKKGIFVIGFSYPVVPKKGARIRVQISAVHSEEDIDRCVEAFVEVGRHLHGALP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_013847

ORF Size: 1251 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_013847.4](#)

RefSeq Size: 2373 bp

RefSeq ORF: 1251 bp

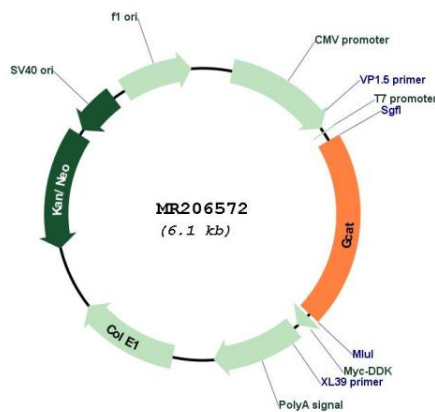
Locus ID: 26912

UniProt ID: [O88986](#)

Cytogenetics: 15 37.7 cM

MW: 44.9 kDa

Product images:



Circular map for MR206572